

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A61K 39/00, 39/12, 39/145, A61L 2/18, C07K 1/36	A1	(11) International Publication Number: WO 99/06067 (43) International Publication Date: 11 February 1999 (11.02.99)
(21) International Application Number: PCT/GB98/02314 (22) International Filing Date: 31 July 1998 (31.07.98) (30) Priority Data: 9716242.4 31 July 1997 (31.07.97) GB (71) Applicant (for all designated States except US): MEDEVA EUROPE LIMITED [GB/GB]; 10 St. James Street, London SW1 1EF (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): MAPLESON, Bridget, Kathleen [GB/GB]; Medeva Pharma, Gaskill Road, Speke, Liverpool L24 9GR (GB). SIZER, Philip [GB/GB]; 120 Chester Road, Helsby WA6 0QS (GB). (74) Agents: HUTCHINS, Michael, Richard et al.; Fry Heath & Spence, The Old College, 53 High Street, Horley, Surrey RH6 7BN (GB).		(81) Designated States: JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: METHOD OF REMOVING ENDOTOXIN FROM VACCINES (57) Abstract The invention provides a method of removing bacterial endotoxin from a pharmaceutical process solution which method comprises treating the solution with a surfactant effective to dissociate the endotoxin from a pharmaceutical drug or vaccine substance in the solution, and then filtering the solution through a molecular weight cut-off filter having a pore size effective to retain the pharmaceutical drug or vaccine substance but allow the dissociated bacterial endotoxin to pass therethrough.		

BEST AVAILABLE COPY